Safety Data Sheet



Section 1: Identification

Product identifier

Product Name • Reno Jet Cast Super Abrade 60 A

Product Code • 146200

Relevant identified uses of the substance or mixture and uses advised against

Recommended use • Refractory applications

Details of the supplier of the safety data sheet

Manufacturer
 Reno Refractories, Inc.

P O Box 201 Morris, AL 35116 United States

www.renorefractories.com sales@renorefractories.com

Telephone (General) • 205-647-0240

Emergency telephone number

Manufacturer • 1-800-262-8200 - CHEMTREC

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Carcinogenicity 1A

Specific Target Organ Toxicity Repeated Exposure 1

Label elements
OSHA HCS 2012

DANGER



Hazard statements • May cause cancer.

Causes damage to organs through prolonged or repeated exposure

Precautionary statements

Prevention • Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust, fume, gas, mist, vapours and/or spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

Response • IF exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Storage/Disposal • Dispose of content and/or container in accordance with local, regional, national, and/or

international regulations.

Other hazards

• Under United States Regulations (29 CFR 1910.1200 - Hazard Communication

Standard), this product is considered hazardous.

Canada

According to: WHMIS

Classification of the substance or mixture

WHMIS
 Other Toxic Effects - D2A

Label elements

WHMIS .

(T)

• Other Toxic Effects - D2A

Other hazards

WHMIS
 In Canada, the product mentioned above is considered hazardous under the

Workplace Hazardous Materials Information System (WHMIS).

See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

Substances

· Material does not meet the criteria of a substance.

Mixtures

Composition							
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments		
Mullite	CAS:1302-93-8 EC Number:215- 113-2	43.89% TO 46.97%	NDA	OSHA HCS 2012: STOT RE 2 (Lungs)	NDA		
Aluminum(III) silicate (2:1)	CAS:1302-76-7 EINECS:215-106-4	15.3% TO 22.33%	NDA	OSHA HCS 2012: STOT RE2 (Lungs)	NDA		
Silica, amorphous	CAS:7631-86-9 EC Number:231- 545-4	<= 14.56%	NDA	OSHA HCS 2012: Data Lacking	NDA		
Cement, alumina, chemicals	CAS:65997-16-2 EC Number:266- 045-5	6% TO 9%	NDA	OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2A	NDA		

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Aluminum silicate, andalusite	CAS:12183-80-1	5.4% TO 9%	NDA	OSHA HCS 2012: WHMIS:	NDA
Amorphous silica fume	CAS:69012-64-2 EC Number:273- 761-1	4.5% TO 7%	NDA	OSHA HCS 2012: STOT RE 1 (Lungs)	NDA
Quartz	CAS:14808-60-7 EC Number:238- 878-4	0.9% TO 2.85%	NDA	OSHA HCS 2012: Carc. 1A; STOT RE 1 (Lungs)	NDA
Titanium dioxide	CAS:13463-67-7 EC Number:236- 675-5	0.18% TO 1.175%	NDA	OSHA HCS 2012: Carc. 2	NDA
Polyphosphoric acids, sodium salts	CAS:68915-31-1 EC Number:272- 808-3	< 0.528%	NDA	OSHA HCS 2012: WHMIS: Other Toxic Effects - D2B	NDA
Aluminum oxide	CAS:1344-28-1 EC Number:215- 691-6	< 0.528%	NDA	OSHA HCS 2012: Not Classified - Criteria not met	NDA
Cristobalite	CAS:14464-46-1 EC Number:238- 455-4	0.19% TO 0.22%	NDA	OSHA HCS 2012: Carc. 1A	NDA
1-Propene, homopolymer	CAS:9003-07-0	0.09% TO 0.1%	NDA	OSHA HCS 2012: Data Lacking	NDA
Wetting Agent	Proprietary	0.03% TO 0.08%	NDA	OSHA HCS 2012: WHMIS:	NDA

See Section 11 for Toxicological Information.

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

 Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention immediately.

Skin

• In case of contact with substance, immediately flush skin with running water for at least 20 minutes. If skin irritation occurs: Get medical advice/attention.

Eye

• In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

 Rinse mouth. Do not give anything by mouth to an unconscious person. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

· Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

 All treatments should be based on observed signs and symptoms of distress in thepatient. Consideration should be given to the possibility that overexposure to materialsother than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • Material is non-combustible. In case of fire use media as appropriate for surrounding fire.

Unsuitable Extinguishing Media

· None known.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion

Hazards

None known.

Hazardous Combustion Products

None known.

Advice for firefighters

Wear positive pressure self-contained breathing apparatus (SCBA).
 Structural firefighters' protective clothing will only provide limited protection.
 Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Isolate hazard area and deny entry to unauthorized and/or unprotected personnel. Do
not touch or walk through spilled material. Ensure adequate ventilation to remove
vapors, fumes, dust etc.

Emergency Procedures

 Ventilate closed spaces before entering. Isolate hazard area and deny entry to unauthorized and/or unprotected personnel.

Environmental precautions

No specific actions or treatments recommended related to exposure to this material.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

Avoid generating dust.
 FOR SMALL SPILLS: Clean with a vacuum with a filtration system sufficient to remove
 and prevent recirculation of crystalline silica (a vacuum equipped with a high-efficiency
 particulate air (HEPA) filter is recommended).
 FOR LARGE SPILLS: Use a fine spray or mist to control dust creation and carefully
 scoop or shovel into clean dry container for later reuse or disposal.

If, an appropriate vacuum is unavailabe, only wet-clean-up methods should be used (i.e. misting). Moisture should be added as necessary to reduce exposure to airborne respirable silica dust.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

• Do not breathe dust. Avoid contact with skin, eyes, and clothing. Minimize dust generation and accumulation. Use good safety and industrial hygiene practices. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Wear long sleeves and/or protective coveralls. Contaminated clothing must be vacuumed before removal. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not use in areas without adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage

 Store in a covered location. Keep container closed. Keep from freezing. Storage and work area should be periodically cleaned to minimize dust accumulation.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Canada Ontario	Canada Quebec	Mexico	NIOSH

	STELs	Not established	Not 6	established	Not	established	20 mg/m3 STEL [LMPE-CT] (as Ti)	Not established
Titanium dioxide (13463-67-7)	TWAs	10 mg/m3 TWA	10 m	g/m3 TWA	(cor Asb	ng/m3 TWAEV staining no estos and <1% stalline silica, total t)	10 mg/m3 TWA LMPE -PPT (as Ti)	Not established
Cristobalite (14464-46-1)	TWAs	0.025 mg/m3 TWA (respirable fraction)	(desi subs regul listed	mg/m3 TWA ignated itances lation, respirable, d under Silica, alline)		mg/m3 TWAEV pirable dust)	0.05 mg/m3 TWA LMPE-PPT (respirable fraction)	0.05 mg/m3 TWA (respirable dust)
Aluminum oxide (1344-28-1)	TWAs	Not established	Not e	established	(cor Asb Crys	ng/m3 TWAEV staining no estos and <1% stalline silica, total t, as AI)	10 mg/m3 TWA LMPE -PPT	Not established
Quartz (14808-60-7)	TWAs	0.025 mg/m3 TWA (respirable fraction)	(desi subs regul listed	0.10 mg/m3 TWA (designated substances regulation, respirable, listed under Silica, crystalline)		mg/m3 TWAEV pirable dust)	0.1 mg/m3 TWA LMPE -PPT (respirable fraction)	0.05 mg/m3 TWA (respirable dust)
Amorphous silica fume (69012-64-2)	TWAs	Not established	(resp	2 mg/m3 T mg/m3 TWA (containing espirable, listed Asbestos der Silica fume) Crystalline		g/m3 TWAEV staining no estos and <1% stalline silica, sirable dust)	2 mg/m3 TWA LMPE- PPT; 10 mg/m3 TWA LMPE-PPT (inhalable particulate); 3 mg/m3 TWA LMPE-PPT (respirable particulate)	Not established
Silica, amorphous (7631-86-9)	TWAs	Not established	Not e	t established Not		established	Not established	6 mg/m3 TWA
	Exposure Limits/Guidelines (Con't.)							
				Result			OSHA	
Titanium dioxide (13463-67-7)				TWAs		15 mg/m3 TWA (total dust)		
Aluminum oxide (1344-28-1)				TWAs		15 mg/m3 TWA (t	otal dust); 5 mg/m3 TW	A (respirable fraction)

Exposure Control Notations

Canada Ontario

- •Quartz (14808-60-7): Designated Substances: (0.10 mg/m3 TWA (respirable fraction, listed under Silica, crystalline))
- Cristobalite (14464-46-1): **Designated Substances:** (0.05 mg/m3 TWA (respirable fraction, listed under Silica, crystalline))

Canada Quebec

•Quartz (14808-60-7): Carcinogens: (C2 carcinogen - effect suspected in humans)

ACGIH

- •Quartz (14808-60-7): **Carcinogens:** (A2 Suspected Human Carcinogen)
- •Titanium dioxide (13463-67-7): Carcinogens: (A4 Not Classifiable as a Human Carcinogen)
- Cristobalite (14464-46-1): Carcinogens: (A2 Suspected Human Carcinogen)

Exposure Limits Supplemental OSHA

- •Silica, amorphous (7631-86-9): Mineral Dusts: (20 mppcf TWA; (80)/(% SiO2) mg/m3 TWA)
- •Quartz (14808-60-7): Mineral Dusts: ((30)/(%SiO2 + 2) mg/m3 TWA, total dust; (250)/(%SiO2 + 5) mppcf TWA, respirable fraction; (10)/(%SiO2

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- + 2) mg/m3 TWA, respirable fraction)
- •Cristobalite (14464-46-1): Mineral Dusts: ((1/2)(30)/(%SiO2 + 2) mg/m3 TWA, total dust; (1/2)(250)/(%SiO2 + 5) mppcf TWA, respirable fraction; (1/2)(10)/(%SiO2 + 2) mg/m3 TWA, respirable fraction)

ACGIH

- •Quartz (14808-60-7): TLV Basis Critical Effects: (lung cancer; pulmonary fibrosis)
- •Titanium dioxide (13463-67-7): TLV Basis Critical Effects: (lower respiratory tract irritation)
- Cristobalite (14464-46-1): TLV Basis Critical Effects: (lung cancer; pulmonary fibrosis)

Exposure controls

Engineering Measures/Controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is not leakage from the equipment). Collection systems must be designed and maintained to prevent the accumulation and recirculation of respirable silica into the workplace.

Personal Protective Equipment

Respiratory

 For limited exposure use an N95 dust mask. For prolonged exposure use an airpurifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

Wear protective eyewear (goggles, face shield, or safety glasses).

Hands

Wear appropriate gloves.

Skin/Body

Wear long sleeves and/or protective coveralls.

General Industrial Hygiene Considerations

Avoid breathing dust. Avoid contact with skin, eyes or clothing. Do not remove dusts from clothing by blowing or shaking. Do not eat, drink or smoke during work. Wash hands before eating, drinking, or smoking. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls

Follow best practice for site management and disposal of waste. Dispose of in an approved landfill.

Key to abbreviations

American Conference of Governmental Industrial

STEL = Short Term Exposure Limits are based on 15-minute exposures

Hygiene

TWAEV = Time-Weighted Average Exposure Value

NIOSH = National Institute of Occupational Safety and Health

Time-Weighted Averages are based on 8h/day, 40h/week

OSHA = Occupational Safety and Health Administration

exposures

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Gray granular dry powder with an earthy odor.
Color	Gray	Odor	Earthy
Odor Threshold	Data lacking		
General Properties		•	•
Boiling Point	Data lacking	Melting Point/Freezing Point	> 3000 °F(> 1648.8889 °C)
Decomposition Temperature	Data lacking	рН	6.5 to 8
		i i	

Specific Gravity/Relative Density	= 2.8 Water=1	Water Solubility	Negligible < 0.1 %			
Viscosity	Data lacking					
Volatility			-			
Vapor Pressure	Data lacking	Vapor Density	Data lacking			
Evaporation Rate	Data lacking	VOC (Vol.)	Data lacking			
Flammability		-	-			
Flash Point	Data lacking	UEL	Data lacking			
LEL	Data lacking	Autoignition	Data lacking			
Flammability (solid, gas)	Not flammable.					
Environmental En						
Octanol/Water Partition coefficient	Data lacking					

Section 10: Stability and Reactivity

Reactivity

• No dangerous reaction known under conditions of normal use.

Chemical stability

· Stable under normal temperatures and pressures.

Possibility of hazardous reactions

· Hazardous polymerization will not occur.

Conditions to avoid

No data available

Incompatible materials

· No data available

Hazardous decomposition products

· No data available

Section 11 - Toxicological Information

Information on toxicological effects

	Components				
Silica, amorphous (<= 14.56%)	7631-86- 9	Irritation: Eye-Rabbit • 25 mg 24 Hour(s) • Mild irritation			
Titanium dioxide (0.18% TO 1.175%)	II 1 3/4 h 3-	Irritation: Skin-Human • 300 μg 3 Day(s)-Intermittent • Mild irritation; Tumorigen / Carcinogen: Inhalation-Rat TCLo • 250 mg/m³ 6 Hour(s) 2 Year(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration:Tumors			

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Classification criteria not met
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met

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Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 1A
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1

Target Organs

Lungs

Route(s) of entry/exposure

· Inhalation, Skin, Eye, Ingestion

Medical Conditions Aggravated by Exposure Potential Health Effects Inhalation

Any pre-existing conditions of the lungs. Disorders of the lungs.

Acute (Immediate)

Nuisance dust may affect the lungs but reactions are typically reversible.

Chronic (Delayed)

 Chronic overexposure to dust containing respirable sized crystalline silica can cause delayed lung injury (silicosis). Inhalation of dust containing crystalline silica pulmonary diseases such as asthma and lung disorder associated with smoking. IARC studies have shown sufficient evidence from animal studies to categorize crystalline silica as a group 1 carcinogen.

Skin

Acute (Immediate)
Chronic (Delayed)

Exposure to dust may cause mechanical irritation.

· No data available.

Eye

Acute (Immediate)

• Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.

Chronic (Delayed)

No data available.

Ingestion

Acute (Immediate)

 Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.

Chronic (Delayed)

No data available.

Carcinogenic Effects

May cause cancer.

Carcinogenic Effects					
	CAS	IARC	NTP		
Titanium dioxide	13463-67-7	Group 2B-Possible Carcinogen	Not Listed		
Cristobalite	14464-46-1	Group 1-Carcinogenic	Not Listed		
Quartz	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen		

Key to abbreviations

MLD = Mild

TC = Toxic Concentration

Section 12 - Ecological Information

Toxicity

· Material data lacking.

Persistence and degradability

Material data lacking.

Bioaccumulative potential

Material data lacking.

Mobility in Soil

Material data lacking.

Other adverse effects

No studies have been found.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	NDA	Not regulated	NDA	NDA	NDA
TDG	NDA	Not regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not regulated	NDA	NDA	NDA

Special precautions for user • None known.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

· Not relevant.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture SARA Hazard Classifications • Chronic

	State Right To Know						
Component	CAS	MA	NJ	PA			
1-Propene, homopolymer	9003-07-0	No	No	No			
Aluminum oxide	1344-28-1	Yes	Yes	Yes			
Aluminum silicate, andalusite	12183-80-1	No	No	No			
Aluminum(III) silicate (2:1)	1302-76-7	No	No	No			
Cement, alumina, chemicals	65997-16-2	No	No	No			
Cristobalite	14464-46-1	Yes	Yes	Yes			
Wetting Agent	Proprietary	No	No	No			
Mullite	1302-93-8	No	No	No			
<u> </u>							

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Format: GHS Language: English (US) OSHA HCS 2012, WHMIS

Polyphosphoric acids, sodium salts	68915-31-1	No	No	No
Quartz	14808-60-7	Yes	Yes	Yes
Amorphous silica fume	69012-64-2	No	No	No
Silica, amorphous	7631-86-9	Yes	Yes	Yes
Titanium dioxide	13463-67-7	Yes	Yes	Yes

		Inve	ntory	
Component	CAS	Canada DSL	Canada NDSL	TSCA
1-Propene, homopolymer	9003-07-0	Yes	No	Yes
Aluminum oxide	1344-28-1	Yes	No	Yes
Aluminum silicate, andalusite	12183-80-1	No	Yes	Yes
Aluminum(III) silicate (2:1)	1302-76-7	Yes	No	No
Cement, alumina, chemicals	65997-16-2	Yes	No	Yes
Cristobalite	14464-46-1	Yes	No	Yes
Wetting Agent	Proprietary	Yes	No	Yes
Mullite	1302-93-8	Yes	No	Yes
Polyphosphoric acids, sodium salts	68915-31-1	Yes	No	Yes
Quartz	14808-60-7	Yes	No	Yes
Amorphous silica fume	69012-64-2	Yes	No	Yes
Silica, amorphous	7631-86-9	Yes	No	Yes
Titanium dioxide	13463-67-7	Yes	No	Yes

Canada

La	b	0	r

Labor		
Canada - WHMIS 1988 - Classifications of Substances		
Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
Cement, alumina, chemicals	65997-16-2	Not Listed
Wetting Agent	Proprietary	Not Listed
Aluminum silicate, andalusite	12183-80-1	Not Listed
• Mullite	1302-93-8	Not Listed
Amorphous silica fume	69012-64-2	Not Listed
Titanium dioxide	13463-67-7	D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Titanium dioxide, mixture containing on Health Canada's WHMIS Division website.)
Aluminum oxide	1344-28-1	Uncontrolled product according to WHMIS classification criteria
		D2A (In certain cases, this

Cristobalite	14464-46-1	classification does not apply. For more information, consult the section Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS Division
Silica, amorphous	7631-86-9	website.) Uncontrolled product according to WHMIS classification criteria
• Quartz	14808-60-7	D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS Division website.)
• 1-Propene, homopolymer	9003-07-0	Uncontrolled product according to WHMIS classification criteria
Aluminum(III) silicate (2:1)	1302-76-7	Not Listed
Canada - WHMIS 1988 - Ingredient Disclosure List		
Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
Cement, alumina, chemicals	65997-16-2	Not Listed
Wetting Agent	Proprietary	Not Listed
Aluminum silicate, andalusite	12183-80-1	Not Listed
• Mullite	1302-93-8	Not Listed
Amorphous silica fume	69012-64-2	Not Listed
Titanium dioxide	13463-67-7	Not Listed
Aluminum oxide	1344-28-1	1 %
Cristobalite	14464-46-1	1 %
Silica, amorphous	7631-86-9	1 %
• Quartz	14808-60-7	1 %
• 1-Propene, homopolymer	9003-07-0	Not Listed
Aluminum(III) silicate (2:1)	1302-76-7	Not Listed

United States

Environment U.S CERCLA/SARA - Section 313 - Emission Reporting		
Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
Cement, alumina, chemicals	65997-16-2	Not Listed
Wetting Agent	Proprietary	Not Listed
Aluminum silicate, andalusite	12183-80-1	Not Listed
Mullite	1302-93-8	Not Listed
Amorphous silica fume	69012-64-2	Not Listed
Titanium dioxide	13463-67-7	Not Listed
Aluminum oxide	1344-28-1	1.0 % de minimis concentration (fibrous forms)
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed
• 1-Propene, homopolymer	9003-07-0	Not Listed
Aluminum(III) silicate (2:1)	1302-76-7	Not Listed

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OSHA HCS 2012, WHMIS

United States - California

.S California - Proposition 65 - Carcinogens List		
 Polyphosphoric acids, sodium salts 	68915-31-1	Not Listed
Cement, alumina, chemicals	65997-16-2	Not Listed
Wetting Agent	Proprietary	Not Listed
Aluminum silicate, andalusite	12183-80-1	Not Listed
• Mullite	1302-93-8	Not Listed
Amorphous silica fume	69012-64-2	Not Listed
		carcinogen, 9/2/2011
Titanium dioxide	13463-67-7	(airborne, unbound particles respirable size)
Aluminum oxide	1344-28-1	Not Listed
Cristobalite	14464-46-1	Not Listed
Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed
1-Propene, homopolymer	9003-07-0	Not Listed
Aluminum(III) silicate (2:1)	1302-76-7	Not Listed

United States - Pennsylvania

	0004=044	
Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
Cement, alumina, chemicals	65997-16-2	Not Listed
Wetting Agent	Proprietary	Not Listed
Aluminum silicate, andalusite	12183-80-1	Not Listed
Mullite	1302-93-8	Not Listed
Amorphous silica fume	69012-64-2	Not Listed
Titanium dioxide	13463-67-7	Not Listed
Aluminum oxide	1344-28-1	
Cristobalite	14464-46-1	Not Listed
· Silica, amorphous	7631-86-9	Not Listed
• Quartz	14808-60-7	Not Listed
1-Propene, homopolymer	9003-07-0	Not Listed
Aluminum(III) silicate (2:1)	1302-76-7	Not Listed

Other Information

 WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Revision Date

30/April/2018

Last Revision Date

• 07/October/2016

Preparation Date

06/October/2016

Disclaimer/Statement of Liability

 The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release. Reno Refractories MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key to abbreviationsNDA = No data available